Claims

1. A tray for carrying a magnetic head for magnetic disks which comprises an arm part, a head chip attached to the tip of the arm part, and a lead wire connected to the head chip, characterized in that

the tray is one obtained by molding a conductive thermoplastic resin composition, and

when the tray is immersed in 500 ml of pure water while applying 40 kHz ultrasonic thereto for 60 seconds, the number of particles having a particle diameter of 1 μ m or larger which detach from the surface of the tray is 5,000 pcs/cm² or smaller.

2. The tray for carrying a magnetic head for magnetic disks of claim 1, wherein

the conductive thermoplastic resin composition comprises a thermoplastic resin and a conductive loading material, and

the conductive loading material comprises one or more members selected from the group consisting of a polyether type polymeric antistatic agent, a conductive filler, and carbon fibrils.

 The tray for carrying a magnetic head for magnetic disks of claim 2, wherein

the thermoplastic resin comprises one or more members selected from the group consisting of polycarbonates,

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poly(butylene terephthalate), poly(ethylene terephthalate),
and polypropylene.

4. The tray for carrying a magnetic head for magnetic disks of claim 2, wherein

the conductive loading material is carbon fibrils having a diameter of 100 nm or smaller and a length/diameter ratio of 5 or higher.

5. The tray for carrying a magnetic head for magnetic disks of claim 1, wherein

when the tray is immersed in 50 ml of pure water while stirring the water at 60° C for 60 minutes, the amount of chlorine ions which dissolve away from the tray is 0.01 μ g or smaller per unit surface area (cm²) of the tray.

6. The tray for carrying a magnetic head for magnetic disks of claim 1,

which has a surface resistance of from 10^3 to 10^{12} Ω .

7. A tray for carrying a magnetic head for magnetic disks which comprises an arm part, a head chip attached to the tip of the arm part, and a lead wire connected to the head chip, characterized in that

the tray is one obtained by injection-molding a conductive polycarbonate resin composition, and

the tray has such a surface roughness that the tenpoint average roughness (Rz) thereof as determined through a measurement employing a cutoff wavelength of 2.5 mm is 5 µm or smaller.

8. A tray for carrying a magnetic head for magnetic disks which comprises an arm part, a head chip attached to the tip of the arm part, and a lead wire connected to the head chip, characterized in that

the tray is one obtained by injection-molding a conductive polycarbonate resin composition,

the tray has a surface resistance of from $1 \text{x} 10^3$ to $1 \text{x} 10^{12} \ \Omega$, and

the tray has such a surface roughness that in a measurement employing a cutoff wavelength of 2.5 mm, the proportion of 10%-cutting-level load length (tp) is 1% or higher and the count of peaks not smaller than $\pm 0.1~\mu m$ based on the center line (Pc) is 100 or smaller per cm of the length of measurement.

9. The tray for carrying a magnetic head for magnetic disks of claim 8, wherein

in the measurement employing a cutoff wavelength of 2.5 mm, the ten-point average roughness (Rz) of the tray is from 5 to 50 $\mu m\,.$

10. The tray for carrying a magnetic head for magnetic disks of claim 7 or 8 wherein the conductive polycarbonate resin composition contains conductive fibers having a fiber diameter of 5 µm or smaller and/or a

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carbonaceous conductive loading material having a DBP absorption of 100 cc/100/g or higher.

- 11. The tray for carrying a magnetic head for magnetic disks of claim 7, wherein the conductive polycarbonate resin composition contains carbon fibrils having a fiber diameter of 100 nm or smaller and a length/diameter ratio of 5 or higher.
- 12. The tray for carrying a magnetic head for magnetic disks of claim 7, which has a surface resistance of from 10^3 to $10^{12}~\Omega$.

disks which comprises an arm part, a head chip attached to the tip of the arm part, and a lead wire connected to the head chip, characterized in that

the tray is one obtained by molding a polycarbonate resin composition containing a conductive loading material in an amount of from 0.25 to 50% by weight, and

the amount of a chlorinated hydrocarbon generated from the tray having a surface area of 12.6 cm² under the conditions of a heating temperature of 85°C and an equilibrium time of 16 hours is 0.1 μ g/g or smaller when determined with a head space gas chromatogram.

14. The tray for carrying a magnetic head for magnetic disks of claim 13, wherein

the total amount of all gases generated from the tray having a surface area of 12.6 cm², the amount of methylene chloride generated therefrom, and the amount of a hydrocarbon generated therefrom in a measurement conducted under the conditions of a heating temperature of 85°C and an equilibrium time of 16 hours are 1 μ g/g or smaller, 0.1 μ g/g or smaller, and 0.5 μ g/g or smaller, respectively, when determined with a head space gas chromatogram.

- 15. The tray for carrying a magnetic head for magnetic disks of claim 13, wherein the conductive loading material is a carbonaceous conductive substance having a DBP absorption of 100 cc/100 g or higher.
- 16. The tray for carrying a magnetic head for magnetic disks of claim 13, wherein the conductive loading material is carbon fibrils having a diameter of 100 nm or smaller and a length/diameter ratio of 5 or higher.
- 17. The tray for carrying a magnetic head for magnetic disks of claim 13, which has a surface resistance of from 10^3 to $10^{12}~\Omega$.
- 18. The tray for carrying a magnetic head for magnetic disks of claim 13, wherein the polycarbonate resin is a polycarbonate resin which has been purified by dropping into warm water.
- 19. The tray for carrying a magnetic head for magnetic disks of claim 13, wherein the polycarbonate resin

is a polycarbonate resin obtained by a solvent-free polymerization method.

- 20. The tray for carrying a magnetic head for magnetic disks of claim 13, which has undergone vacuum degassing during the melt kneading or melt molding of the polycarbonate resin composition.
- 21. The tray for carrying a magnetic head for magnetic disks of claim 13, which has been annealed at a temperature of from 80 to 140°C for from 30 minutes to 20 hours after molding.
- 22. A tray for carrying a magnetic head for magnetic disks which comprises an arm part, a head chip attached to the tip of the arm part, and a lead wire connected to the head chip, said tray satisfying at least one of the following (1) to (3):
- (1) the tray is one obtained by molding a conductive thermoplastic resin composition and having a surface resistance of from 1×10^3 to $1 \times 10^{12}/\Omega$, and

when the tray is immersed in 500 ml of pure water while applying 40 kHz ultrasonic thereto for 60 seconds, the number of particles having a particle diameter of 1 μ m or larger which detach from the surface of the tray is 5,000 pcs/cm² or smaller;

(2) the tray has such a surface roughness that in a measurement employing a cutoff wavelength of 2.5 mm, the

proportion of 10%-cutting-level load length (tp)/is 1% or higher and the count of peaks not smaller than $\pm 0.1~\mu m$ based on the center line (Pc) is 100 or smaller per cm of the length of measurement;

- (3) the amount of a chlorinated hydrocarbon generated from the tray having a surface area of 12.6 cm² under the conditions of a heating temperature of 85°C and an equilibrium time of 16 hours is 0.1 µg/g or smaller when determined with a head space gas chromatogram.
- 23. A tray for carrying a magnetic head for magnetic disks which comprises an arm part, a head chip attached to the tip of the arm part, and a lead wire connected to the head chip, characterized in that

the tray is one obtained by molding a conductive thermoplastic resin composition and

the tray has a surface resistance of from 1×10^3 to $1 \times 10^{12} \ \Omega$, and that

when the tray is immersed in 500 ml of pure water while applying 40 kHz ultrasonic thereto for 60 seconds, the number of particles having a particle diameter of 1 μ m or larger which detach from the surface of the tray is 5,000 pcs/cm² or smaller, or

the tray has such a surface roughness that the tenpoint average roughness (Rz) thereof as determined through a measurement employing a cutoff wavelength of 2.5 mm is 5 μ m or smaller, or

the amount of a chlorinated hydrocarbon generated from the tray having a surface area of 12.6 cm² under the conditions of a heating temperature of 85° C and an equilibrium time of 16 hours is 0.1 μ g/g or smaller when determined with a head space gas chromatogram.

24. A tray for carrying a magnetic head for magnetic disks which comprises an arm part, a head chip attached to the tip of the arm part, and a lead wire connected to the head chip, characterized in that

the tray is one obtained by molding a conductive thermoplastic resin composition and having a surface resistance of from $1x10^5$ to $1x10^{12}\;\Omega,$ and

when the tray is immersed in 500 ml of pure water while applying 40 kHz ultrasonic thereto for 60 seconds, the number of particles having a particle diameter of 1 μ m or larger which detach from the surface of the tray is 3,500 pcs/cm² or smaller.

25. A tray for carrying a magnetic head for magnetic disks which comprises an arm part, a head chip attached to the tip of the arm part, and a lead wire connected to the head chip, characterized in that

the tray is one obtained by molding a conductive thermoplastic resin composition and having a surface resistance of from 1×10^3 to 1×10^{12} Ω_{\star}

when the tray is immersed in 500 ml of pure water while applying 40 kHz ultrasonic thereto for 60 seconds, the number of particles having a particle diameter of 1 μ m or larger which detach from the surface of the tray is 5,000 pcs/cm² or smaller,

the tray has such a surface roughness that the tenpoint average roughness (Rz) thereof as determined through
a measurement employing a cutoff wavelength of 2.5 mm is 5

µm or smaller, and

the amount of a chlorinated hydrocarbon generated from the tray having a surface area of 12.6 cm² under the conditions of a heating temperature of 85°C and an equilibrium time of 16 hours is 0.1 μ g/g or smaller when determined with a head space gas chromatogram.

26. A tray for carrying a magnetic head for magnetic disks which comprises an arm part, a head chip attached to the tip of the arm part, and a lead wire connected to the head chip,

the tray being one obtained by molding a conductive thermoplastic resin composition and having a surface resistance of from 1×10^3 to 1×10^{12} Ω , and

the tray having such a surface roughness that in a measurement employing a cutoff wavelength of 2.5 mm, the proportion of 10%-cutting-level load length (tp) is lower than 4%.

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